

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Husc

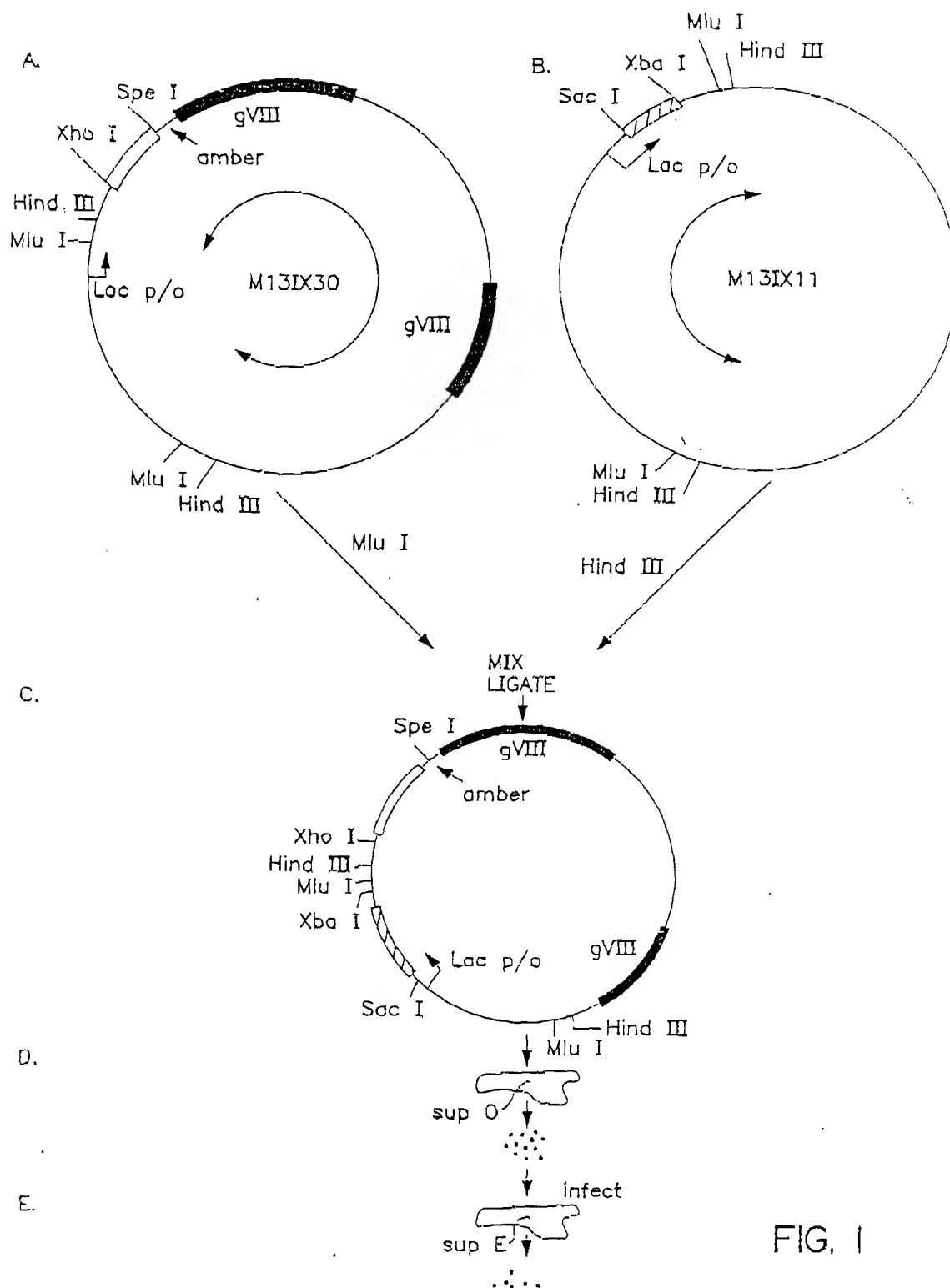
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Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8720)

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	1	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGGCCCCC	AAATGAAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGCA	AAATGATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTCGCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTCCAGACA	CCGTACTTTA	180
181	GTTCATATT	TAAAAATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTTCGCTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
361	TCTTTCGGGC	TTCTCTTAA	TCTTTTGTAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAAC	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCGCGAG	TATTTGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTT	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAAT	AAACCATATC	AAGCCCAATT	TACTACTCGT	TCTGGTGT	900
901	CTCGTCAAGG	CAAGCCTTAT	TCACCTGAAT	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCACTGTCTC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTCT	CGGATTTCGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCCTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTAATG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCTT	1320
1321	CAAGCCCTCT	GTAGCCGTGG	CTACCCCTCG	TCCGATGCTG	TCTTTGCGTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCTT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCCGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTGCG	CGCAACTATC	GGTATCAAGC	TGTTTAAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAG	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAAG	TTTTCAACGT	GAATAAATTA	TTATTTCGAA	TTCTTTTAGT	TGTTCTTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACTCCATAC	AGAAAAATTA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAACTT	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCCCTCT	GACGGCACTT	ATCCGCTCTG	TACTGAGCAA	1980
1981	AAACCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCACTGTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACCT	TTTATACGGG	CACCTGTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACCTTATAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCTG	TTTGTGAATA	TCAAGGCCAA	TGGTCTGACC	TGGCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTCTGGT	AGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCGGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAAACGT	AAATAAGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAACACGCGC	TACAGTCTGA	CGTAAAGGC	AAACTTGATT	CTGTGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCGCTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCC	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTAATG	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCGGT	2880
2881	TATTATTGCG	TTTCTCGGT	TTCCTTCTGG	TAACCTTGTG	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCATT	GTTTCTTGCT	CTTATTATTG	3000

FIG. 2A

Title: Surface Expression Libraries of Heteromeric Receptors

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	1	10	20	30	40	50	60	
3001	GGCTTAACTC	AAITCTTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060	
3061	TTGTTCAAGG	TGTTCAAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120	
3121	TCTCTGTAAA	GGCTGCTATT	TTCAITTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180	
3181	ATTGGGATAA	ATAATAAGGC	TGTTTATTTT	GTAACGCGCA	AATTAGGCTC	TGGAAGACG	3240	
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300	
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAC	GCCTCGCGTT	3360	
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT	3420	
3421	TCCTACGATG	AAAAATAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAAT	3480	
3481	ACCCGTTCTT	GGAAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT	3540	
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600	
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660	
3661	TTTGTCGGTA	CTTTATATTC	TCTTATTAAT	GGCTCGAAAA	TGCTCTCGCC	TAAATTACAT	3720	
3721	GTTGGCGTTG	TAAATATG	CGATTCTCAA	TAAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780	
3781	ACTGGTAAGA	ATTGTATYAA	CGCATATGAT	ACTAAACAGG	CTTTTTCTAG	TAATTATGAT	3840	
3841	TCCGGTGTTT	ATTCTTATTT	AACGCTTAT	TTATCACACG	GTCGGTATTT	CAAAACCATTA	3900	
3901	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTGTA	AAAAGTTTTT	ACGCGTTCTT	3960	
3961	TGCTTTGCGA	TTGGATTTGC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020	
4021	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACATAT	TGACTCTTCT	4080	
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140	
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200	
4201	ATTAATAAAG	GTAAATCAAA	TGAAATTTGT	AAATGTAATT	AAITTTGTTT	TCTTGATGTT	4260	
4261	TGTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AAITCGCCTC	TGCGCGATTT	4320	
4321	TGTAACCTTG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAGAGG	4380	
4381	TACTGTTACT	GTATATTCAT	CTGACGTTAA	ACCTGAAAAAT	CTACGCAATT	TCTTTATTTT	4440	
4441	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAAGTA	4500	
4501	TGTAACCAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560	
4561	TGATAATTCC	GCCTCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAAC	4620	
4621	TTTTAAAAAT	AATAACGTTT	GGGCAAGGGA	TTTTAATACGA	GTTGTCGAAT	TGTTTGTAAG	4680	
4681	GTCTAATACT	TCTAAATCCT	CAAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740	
4741	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTG	CTTTCTACTG	TTGATTTGCC	4800	
4801	AACTGACCA	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860	
4861	TTTTTCAITT	GCTGCTGGCT	CTCAGCGTGG	CACCTGTTGA	GGCGGTGTTA	ATACTGACCG	4920	
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCTGTTGCT	ATTTTTAATG	GCGATGTTTT	4980	
4981	AGGGCTATCA	GTTGCGCGAT	TAAAGACTAA	TAGCCATTCA	AAAAATATTG	CTGTGCCACG	5040	
5041	TATTCCTACG	CTTTCAGGTC	AGAAGGGTTT	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100	
5101	TGTAAGTCTG	GTGACTGGTG	AATCTGCCAA	TGTAAATAAT	CCATTTTACA	CGATTGAGCG	5160	
5161	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220	
5221	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280	
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT	5340	
5341	CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCCTGTCTAA	5400	
5401	AATCCCTTTA	ATCGGCTCTC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460	
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATT	AGCGCGGCGG	5520	
5521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACCTTGCCAG	CGCCCTAGCG	CCCCTCTCTT	5580	
5581	TCGCTTTCTT	CCCTTCTCTT	CTCGCCACGT	TCGCGGCTT	TCCCGTCAA	GCTCTAAATC	5640	
5641	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAAGTTG	5700	
5701	ATTTGGGTGA	TGGTTACGCT	AGTGGGCTAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA	5760	
5761	CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCA	AACTGGAACA	ACACTCAACC	5820	
5821	CTATCTCGGG	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTGCGAA	CCACCATCAA	5880	
5881	ACAGGATTTT	CGCTGCTGG	GGCAAAACAG	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	5940	
5941	CCAGGCGGTG	AAAGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTGAAAAGAA	AAACCACCTT	6000	

FIG. 2B

Title: Surface Expression Libraries of Heteromeric Receptors

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6001	GGCGCCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	GATTTCATTAA	TGCAGCTGGC	6060
6061	ACGACAGGTT	TCCCAGCTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120
6121	TCACCTCATTA	GGCACCCACAG	GCTTTACACT	TTATGCTTCC	G6CTCGTATG	TTGTGTGGAA	6180
6181	TTGTGAGCGG	ATAACAATTT	CACACGCGTC	ACTTGGCACT	G6CCGTCGTT	TTACAACGTC	6240
6241	GTGACTGGGA	AAACCCCTGGC	GTTACCCAAG	CITTTGTACAT	GGAGAAAATA	AAGTGAAACA	6300
6301	AAGCACTATT	GCACTGGCAC	TCTTACCGTT	ACCGTTACTG	TTTACCCCTG	TGACAAAAGC	6360
6361	CGCCCAGGTC	CAGCTGCTCG	AGTCAGGCCT	ATTGTGCCCA	GGGGATTGTA	CTACTGGATC	6420
6421	CTAGGCTGAA	GGCGATGACC	CTGCTAAGGC	TGCATTCAAT	AGTTTACAGG	CAAGTGCTAC	6480
6481	TGAGTACATT	GGCTACGCTT	GGGCTATGGT	AGTAGTTATA	GTTGGTGCTA	CCATAGGGAT	6540
6541	TAAATTATTC	AAAAAGTTTA	CGAGCAAGGC	TTCTTAAGCA	ATAGCGAAGA	GGCCCGCACC	6600
6601	GATCGCCCTT	CCCAACAGTT	GCGCAGCCTG	AATGGCGAAT	GGCGCTTTGC	CTGGTTTCCG	6660
6661	GCACCAGAAG	CGGTGCCGGA	AAGCTGGCTG	GAGTGCATC	TTCCTGAGGC	CGATACGGTC	6720
6721	GTGCTCCCTT	CAAACTGGCA	GATGCACGGT	TACGATGCGC	CCATCTACAC	CAACGTAACC	6780
6781	TATCCCATTA	CGGTCAATCC	GCCGTTTGT	CCCACGGAGA	ATCCGACGGG	TTGTTACTCG	6840
6841	CTCACATTTA	ATGTTGATGA	AAGCTGGCTA	CAGGAAGGCC	AGACGCGAAT	TATTTTGTAT	6900
6901	GGCGTTCCTA	TTGGTTAAAA	AATGAGCTGA	TTTAACAAAA	ATTTAACGCG	AATTTTAAAC	6960
6961	AAATATTAAAC	GTTTACAATT	TAAATATTTG	CTTATACAAT	CTTCCTGTTT	TTGGGGCTTT	7020
7021	TCTGATTATC	AACCGGGGTA	CATATGATTG	ACATGCTAGT	TTTACGATTA	CCGTTTCATC	7080
7081	ATTCTCTTGT	TTGCTCCAGA	CTCTCAGGCA	ATGACCTGAT	AGCCTTTGTA	GATCTCTCAA	7140
7141	AAATAGCTAC	CCTCTCCGGC	ATTAATTTAT	CAGCTAGAAC	GGTTGAATAT	CATATTGATG	7200
7201	GTGATTTGAC	TGCTCCGGC	CTTTCTCACC	CTTTTGAATC	TTTACCTACA	CATTACTCAG	7260
7261	GCATTGCATT	TAAAATATAT	GAGGGTTCTA	AAAAATTTTA	TCCTTGCGTT	GAAATAAAGG	7320
7321	CTTCTCCCGC	AAAAGTATTA	CAGGGTCATA	ATGTTTTTGG	TACAACCGAT	TTAGCTTTAT	7380
7381	GCTCTGAGGC	TTTATTGCTT	AATTTTGCTA	ATTCCTTGCC	TTGCCTGTAT	GATTTATTGG	7440
7441	ACGTT						7445

FIG. 2C

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3001	GGCTTAACTC	AATTCCTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTTCAGGG	TGTTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTTATTTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACCTGGCA	AATTAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TGGCTAAAC	GCCTCGCGTT	3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTITGCTG	CTATTGGGCG	CGGTAATGAT	3420
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCAGTAC	TTGGTTTAAAT	3480
3481	ACCCGTTCTT	GGAAATGATA	GGAAAGACAG	CCGATTATTT	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTTGT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT	3660
3661	TTTGTCGGTA	CTTTATATTC	TCATTATTAC	GGCTCGAAAA	TGCTCTGCCC	TAAATTACAT	3720
3721	GTTGGCGTTG	TAAATATGGG	CGATTCTCAA	TAAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
3781	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTTCTAG	TAATTATGAT	3840
3841	TCCGGTGTTT	ATTTCTTATTT	AACGCCCTTAT	TTATCACACG	GTCGGTATTT	CAAACCATTA	3900
3901	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTIGA	AAAAGTITTC	ACGCGTTCTT	3960
3961	TGCTTTGCGA	TGGGATTGTC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
4021	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACAT	TGACTCTTCT	4080
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTATG	TACTGTTTCC	4200
4201	ATTAATAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AAATTTGTTT	TCATTGATGTT	4260
4261	TGTTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TGCGCGATTT	4320
4321	TGTAACITGG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
4381	TACTGTTACT	GTATATTCAAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTT	4440
4441	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561	TGATAATTCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC	4620
4621	TTTTAAATTT	AATAACGTTT	GGGCAAGGGA	TTTAAATACGA	GTTGTGGAAT	TGTTTGTAAT	4680
4681	GTCTAATACT	TCTAAATCCT	CAAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
4741	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCTCAATTC	CTTTCTACTG	TTGATTTGCC	4800
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGTAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTTGA	4860
4861	TTTTTCATTT	GCTGCTGGCT	CTCAGCGTGG	CACCTGTTGCA	GGCGGTGTTA	ATACTGACCG	4920
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTGCTTCGGT	ATTTTTTAATG	GCGATGTTTT	4980
4981	AGGGGCTATCA	GTTCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACG	5040
5041	TATTCCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT	5100
5101	TACTGGTTCGT	GTGACTGGTG	AATCTGCCAA	TGTAATAAAT	CCATTTTACA	CGATTGAGCG	5160
5161	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
5221	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT	5340
5341	CGGTGGCCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCGT	TCTGTCTTAA	5400
5401	AATCCCTTTA	ATCGGCTTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
5521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACCTTGCCAG	CGCCCTAGCG	CCCGCTCCTT	5580
5581	TCGCTTTCTT	CCCTTCTCTT	CTCGCCACGT	TCGCGGCGTT	TCCCGTCAA	GCTCTAAATC	5640
5641	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG	5700

FIG. 3B

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	1	10	20	30	40	50	60	
5701	ATTTGGGTGA	TGGTTCACGT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA	5760	
5761	CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCA	AACTGGGAACA	ACACTCAACC	5820	
5821	CTATCTCGGG	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTCGGAA	CCACCATCAA	5880	
5881	ACAGGATTTT	CGCCTGCTGG	GGCAAACCA	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	5940	
5941	CCAGGCGGTG	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTGAAAAGAA	AAACCACCCT	6000	
6001	GGCGCCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	6060	
6061	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120	
6121	TCACTCATTA	GGCACCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	6180	
6181	TTGTGAGCGG	ATAACAATTT	CACACGCCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	6240	
6241	TACGGCAGCC	GCTGGATTGT	TATTACTCGC	TGCCCAACCA	GCCATGGCCG	AGCTCGTGAT	6300	
6301	GACCCAGACT	CCAGATATCC	AACAGGAATG	AGTGTTAATT	CTAGAACGCG	TCACTTGGCA	6360	
6361	CTGGCCGTCC	TTTTACAACG	TGCTGACTGG	GAAAACCCCTG	GCGTTACCCA	AGCTTAATCG	6420	
6421	CCTTGACAGAA	TTCCCTTTTC	CCAGCTGGCG	TAATAGCGAA	GAGGCCCGCA	CCGATCGCCC	6480	
6481	TTCCCAACAG	TTGCGCAGCC	TGAATGGCGA	ATGGCGCTTT	GCCTGGTTTC	CGGCACCAGA	6540	
6541	AGCGGTGCCG	GAAAGCTGGC	TGGAGTGCBA	TCTTCCTGAG	GCCGATACGG	TCGTGCTCCC	6600	
6601	CTCAAACCTG	CAGATGCACG	GTTACGATGC	GCCCATCTAC	ACCAACGTAA	CCATATCCAT	6660	
6661	TACGGTCAAT	CCGCCGTTTG	TTCCACCGGA	GAATCCGACG	GGTTGTTACT	CGCTCACATT	6720	
6721	TAATGTTGAT	GAAAGCTGGC	TACAGGAAGG	CCAGACGCGA	ATTATTTTGG	ATGGCGTTCC	6780	
6781	TATTGGTTAA	AAAATGAGCT	GATTTAACAA	AAATTTAACG	CGAATTTTAA	CAAAATATTA	6840	
6841	ACGTTTACAA	TTTAAATATT	TGCTTAACAA	ATCTTCCTGT	TTTTGGGGCT	TTTCTGATTA	6900	
6901	TCAACCGGGG	TACATATGAT	TGACATGCTA	GTTTTACGAT	TACCGTTTAT	CGATTCTCTT	6960	
6961	GTTTGCTCCA	GACTCTCAGG	CAATGACCTG	ATAGCCTTTG	TAGATCTCTC	AAAAATAGCT	7020	
7021	ACCCTCTCCG	GCATTAATTT	ATCAGCTAGA	ACGGTTGAAT	ATCATATTGA	TGGTGATTTG	7080	
7081	ACTGTCTCCG	GCCTTTCTCA	CCCTTTTGAA	TCTTTACCTA	CACATTACTC	AGGCATTGCA	7140	
7141	TTTAAATAT	ATGAGGGTTC	TAAAAATTTT	TATCCTTGCG	TTGAAATAAA	GGCTTCTCCC	7200	
7201	GCAAAAGTAT	TACAGGGTCA	TAATGTTTTT	GGTACAACCG	ATTTAGCTTT	ATGCTCTGAG	7260	
7261	GCTTTATTGC	TTAATTTTGC	TAATTCCTTG	CCTTGCCCTGT	ATGATTTATT	GGATGTTT	7317	
	1	10	20	30	40	50	60	

FIG. 3C

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8726)

Filing Date: June 5, 1995

Attorney Docket: P-IX 1613

USPTO Customer No. 23601 (858-535-9001)

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1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTGCGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTCCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTG	AGCAATTAAAG	CTCTAAGCCA	240
241	TCCGCAAAAA	TGACCTCTTA	TCAAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAAACGCG	ATATTTGAAG	360
361	TCYTTCCGGC	TTCTCTTTAA	TCYTTTGTAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTTCTGT	TTTCTGAACT	GTITAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCGCGAG	TATTTGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGAATTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGATAA	AGGAATTTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTIT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTG	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTTCCCT	ATGATGACC	1080
1081	GTCTGCGCCT	CGTTCGCGCT	AAGTAACATG	GAGCAGGTG	CGGATTTCTGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAAGATGAG	TGTTTTAGTG	TATTTCTTTC	CCTCTTTCTG	TTTAGGTTGG	TGCTTCTGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACCTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGTTGTGTT	TCATTGTCTG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTACCTCTG	AAAGCAAGCT	GATAAACCGA	TACAATTAAT	GGCTCTTTT	GGAGCCTTTT	1560
1561	TGTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTTCGCA	TTCTCTTTAG	TGTTCTTTTC	1620
1621	TATTTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AAACCCATAC	AGAAAAATTCA	1680
1681	TTTACTAACG	TCTGGAAGAG	CGACAAAACT	TTAGATCGTT	ACGCTAACTA	TGAGGGTGTG	1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACCTATAT	CAACCTCTCT	GACGGCACCT	ATCCGCTTGG	TACTGAGCAA	1980
1981	AAACCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCGGAAT	TAGGCAGGGG	GCAATTAACG	TTTATACGGG	CACCTGTTACT	2100
2101	CAAGGCACCT	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTGAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCT	TTTGTGAATA	TCAAGGCCAA	TGCTCTGACC	TGCTTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAGACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTTAT	TGGTGACGTT	TCCGGGCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGAATTTG	CTGGCTCTAA	TTCCCAAAATG	GCTCAAGTCT	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AAATAACCTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCTG	2880
2881	TATTTATTGG	TTTCTCTGGT	TTCTTTCTGG	TAACCTTTGT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CCTGTTTCTT	GCTCTTATTA	TGGGGCTTAA	3000

FIG. 4A

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8720)

Filing Date: June 5, 1995

Attorney Docket: P-IX 1613

USPTO Customer No. 23601 (858-535-9001)

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	1	10	20	30	40	50	60	
3001	CTCAATTCCT	GTGGGTTATC	TCTCTGATAT	TAGCGCTCAA	TTACCCCTCTG	ACTTTTGTTC	3060	
3061	GGGTGTTTCT	TTAATTCCTC	CGTCTAATGC	GCTTCCCTGT	TTTTATGTTA	TTCTCTCTGT	3120	
3121	AAAGGCTGCT	ATTTTCATTT	TTGACGTTAA	ACAAAAAATC	GTTTCTTATT	TGGATTGGGA	3180	
3181	TAAATAATAT	GGCTGTTTAT	TTTGTAACCTG	GCAAAATTAGG	CTCTGGAAAG	ACGCTCGTTA	3240	
3241	GCGTTGGTAA	GATTCAGGAT	AAAAATTGTAG	CTGGGTGCAA	AATAGCAACT	AATCTTGATT	3300	
3301	TAAGGCTTCA	AAACCTCCCG	CAAGTCGGGA	GGTTCGCTAA	AACGCTCGC	GTTCTTAGAA	3360	
3361	TACCGGATAA	GCCTTCTATA	TCTGATTTCG	TTGCTATTGG	GCGCGTAAT	GATTCCTACG	3420	
3421	ATGAAAAATA	AAACGGCTTG	CTTGTCTCTG	ATGAGTGGCG	TACTTGGTTT	AATACCGGTT	3480	
3481	CTTGGAATGA	TAAGGAAAGA	CAGCCGATTG	TTGATTGGTT	TCTACATGCT	CGTAAATTAG	3540	
3541	GATGGGATAT	TATTTTCTT	GTTCAGGACT	TATCTATTGT	TGATAAACAG	GCGCGTTCTG	3600	
3601	CATTAGCTGA	ACATGTTGTT	TATTGTCTGT	GTCTGGACAG	AATTAATTTA	CCTTTTGTCT	3660	
3661	GTACTTTTATA	TTCTCTTATT	ACTGGCTCGA	AAATGCCTCT	GCCTAAATTA	CATGTGGCGG	3720	
3721	TTGTTAAATA	TGGCGATTCT	CAATTAAGCC	CTACTGTTGA	GCGTTGGCTT	TATACTGGTA	3780	
3781	AGAATTGTGA	TAAACGATAT	GATACTAAAC	AGGCTTTTTC	TAGTAATTTA	GATTCTGGTG	3840	
3841	TTTATCTTGA	TTTAAACGCT	TATTTATCAC	ACGGTCCGTA	TTTCAAAACA	TTAAATTAG	3900	
3901	GTCAGAAAGAT	GAAGCTTACT	AAAATATATT	TGAAAAAGTT	TTACGCGGTT	CTTTGTCTTG	3960	
3961	CGATTGGATT	TGCATCAGCA	TTTACATATA	GTTATATAAC	CCAACCTAAG	CCGGAGGTTA	4020	
4021	AAAAGGTAGT	CTCTCAGACC	TATGATTTTG	ATAAATTAC	TATTGACTCT	TCTCAGCGTC	4080	
4081	TTAATCTAAG	CTATCGCTAT	GTTTTCAAGG	ATTCTAAGGG	AAAATTAATT	AATAGCGACG	4140	
4141	ATTATCAGAA	GCAAGGTTAT	TCACTCACAT	ATATTGATTT	ATGTAAGTTT	TCCATTAAAA	4200	
4201	AAGGTAATTC	AAATGAAATT	GTTAAATGTA	ATTAATTTTG	TTTTCTTGAT	GTTTGTTCCT	4260	
4261	TCATCTTCTT	TTGCTCAGGT	AATTGAAATG	AATAATTCGC	CTCTGCGCGA	TTTTGTAACT	4320	
4321	TGGTATTCAA	AGCAATCAGG	CGAATCCGTT	ATTGTTTCTC	CCGATGTAAA	AGGTACTGTT	4380	
4381	ACTGTATATT	CATCTGACGT	TAAACCTGAA	AATCTACGCA	ATTCTTTTAT	TTCTGTTTTA	4440	
4441	CGTGCTAATA	ATTTTGATAT	GGTTGGTTCA	ATTCTTCCCA	TAATTCAGAA	GTATAATCCA	4500	
4501	AACAATCAGG	ATTATATTGA	TGAATTGCCA	TCACTGTGTA	ATCAGGAATA	TGATGATAAT	4560	
4561	TCCGCTCCTT	CTGGTGGTTT	CTTTGTTCCG	CAAAATGATA	ATGTTACTCA	AACCTTTAAA	4620	
4621	ATTAATTAACG	TTGCGGCAAA	GGATTTAATA	CGAGTTGTGG	AATTGTTTGT	AAAGCTTAAT	4680	
4681	ACTTCTAAAT	CCTCAAAATG	ATTATCTATT	GACGGCTCTA	ATCTATTAGT	TGTTAGTGCA	4740	
4741	CCTAAAGATA	TTTTAGATAA	CCTTCTCTAA	TTCTTTTCTA	CTGTGATTGT	GCCAACTGAC	4800	
4801	CAGATATTGA	TTGAGGGTTT	GATATTGAG	GTTCAGCAAG	GTGATGCTTT	AGATTTTTCA	4860	
4861	TTTGCTGCTG	GCTCTCAGCG	TGGCACTGTT	GCAAGGCGTG	TTAATACTGA	CCGCCTCACC	4920	
4921	TCGTGTTTTAT	CTTCTGCTGG	TGGTTCTGTT	GGTATTTTGA	ATGGCGATGT	TTTAGGGCTA	4980	
4981	TCAGTTCGCG	CATTAAAGAC	TAATAGCCAT	TCAAAAAATA	TGCTGTGTGC	ACGTATTCTT	5040	
5041	ACGCTTTCAG	GTCAGAAAGG	TTCTATCTCT	GTTGGCCAGA	ATGTCCCTTT	TATTACTGGT	5100	
5101	CCTGTGACTG	GTGAATCTGC	CAATGTAAT	AATCCATTTC	AGACGATTGA	GCGTCAAAAT	5160	
5161	GTAGGTATTT	CCATGAGCGT	TTTTCTGTT	GCAATGGCTG	GCGGTAATAT	TGTTCTGGAT	5220	
5221	ATTACCAGCA	AGGCCGATAG	TTTGAGTTCT	TCTACTCAGG	CAAGTGATGT	TATTACTAAT	5280	
5281	CAAAGAAGTA	TTGCTACAAC	GGTTAATTTG	CGTGATGGAC	AGACTCTTTT	ACTCGGTGGC	5340	
5341	CTCACTGATT	ATAAAAACAC	TTCTCAAGAT	TCTGGCGTAC	CGTTCTGTCT	TAAAACTCCT	5400	
5401	TTAATCGGCC	TCCTGTTTAT	CTCCCGCTCT	GATTCCAAAC	AGGAAAGCAC	GTTATACGTG	5460	
5461	CTCGTCAAAG	CAACCATAGT	ACGCGCCCTG	TAGCGGCGCA	TTAAGCGCGG	CGGGTGTGGT	5520	
5521	GGTTACGCGC	AGCGTGACCG	CTACACTTGC	CAGCGCCCTA	GCGCCCGCTC	CTTTCTGCTT	5580	
5581	CTTCCCTTCC	TTTCTCGCCA	CGTTGCGCGG	CTTTCCCGGT	CAAGCTCTAA	ATCGGGGGCT	5640	
5641	CCCTTTAGGG	TTCCGATTTA	GTGCTTTACG	GCACCTCGAC	CCCAAAAAAC	TTGATTGGGG	5700	
5701	TGATGGTTCA	CGTAGTGGGC	CATCGCCCTG	ATAGACGGTT	TTTCCGCCCT	TGACGTTGGA	5760	
5761	GTCCACGTTT	TTTAATAGTG	GACTCTTGTT	CCAAACTGGA	ACAACACTCA	ACCTATCTCT	5820	
5821	GGGCTATTCT	TTTGATTTAT	AAGGSAATTT	GCCGATTTCG	GAACCAACAT	CAACACGGAT	5880	
5881	TTTCCGCTGC	TGGGGCAAC	CAGCGTGGAC	CGCTTGCTGC	AACTCTCTCA	GGGCCAGGCG	5940	
5941	GTGAAGGGCA	ATCAGCTGTT	GCCCTCTCTG	CTGGTGAAAA	GAAAAAACAC	CCTGGCGCCC	6000	

FIG. 4B

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Husc

Serial No.: 08/471,622 (Confirmation No. 87)

Filing Date: June 5, 1995

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6001	AATACGCAAA	CCGCTCTCC	CCGCGCGTTG	GCCGATTCAT	TAATGCAGCT	GGCACGACAG	6060
6061	GTTTCCCGAC	TGGAAAGCGG	GCAGTGAGCG	CAACGCAATT	AATGTGAGTT	AGCTCACTCA	6120
6121	TTAGGCACCC	CAGGCTTTAC	ACTTTATGCT	TCCGGCTCGT	ATGTTGTGTG	GAATTGTGAG	6180
6181	CGGATAACAA	TTTCACACGC	CAAGGAGACA	GTCATAATGA	AATACCTATT	GCCTACGGCA	6240
6241	GCCGCTGGAT	TGTTATTACT	CGCTGCCCAA	CCAGCCATGG	CCGAGCTCTT	CCCGCCATCT	6300
6301	GATGAGCAGT	TGAAATCTGG	AACTGCCCTCT	GTTGTGTGCC	TGCTGAATAA	CTTCTATCCC	6360
6361	AGAGAGGCCA	AAGTACAGTG	GAAGGTGGAT	AACGCCCTCC	AATCGGGTAA	CTCCAGGAG	6420
6421	AGTGTCACAG	AGCAGGACAG	CAAGGACAGC	ACCTACAGCC	TCAGCAGCAC	CCTGACGCTG	6480
6481	AGCAAGCAG	ACTACGAGAA	ACACAAAGTC	TACGCCTGCG	AAGTCACCCA	TCAGGGCCTG	6540
6541	AGCTCGCCCG	TCACAAAGAG	CTTCAACAGG	GGAGAGTGTT	CTAGAACGCG	TCACCTTGCCA	6600
6601	CTGGCCGTCTG	TTTTACAACG	TGCTGACTGG	GAAAACCCTG	GCGTTACCCA	AGCTTAATCG	6660
6661	CCTTGACAGAA	TTCCCTTTTCG	CCAGCTGGCG	TAATAGCGAA	GAGGCCCGCA	CCGATCGCCC	6720
6721	TTCCCAACAG	TTGCGCAGCC	TGAATGGCGA	ATGGCGCTTT	GCCTGGTTTC	CGGCACCAGA	6780
6781	AGCGGTGCCG	GAAAGCTGGC	TGGAGTGGCA	TCTTCTGAG	GCCGATACGG	TCGTCTGCCC	6840
6841	CTCAAACTGG	CAGATGCACG	GTTACGATGC	GCCCATCTAC	ACCAACGTAA	CCTATCCCAT	6900
6901	TACGGTCAAT	CCGCCGTTTG	TTCCACGGGA	GAATCCGACG	GGTGTACT	CGCTCACATT	6960
6961	TAATGTTGAT	GAAAGCTGGC	TACAGGAAGG	CCAGACGCGA	ATTATTTTTC	ATGGCGTTCC	7020
7021	TATTGGTTAA	AAAATGAGCT	GATTTAACAA	AAATTTAACG	CGAATTTTAA	CAAAATATTA	7080
7081	ACGTTTACAA	TTTAAATATT	TGCTTATACA	ATCTTCCTGT	TTTTGGGGCT	TTTCTGATTA	7140
7141	TCAACCGGGG	TACATATGAT	TGACATGCTA	GTTTTACGAT	TACCGTTTAT	CGATTCTCTT	7200
7201	GTTTGCTCCA	GACTCTCAGG	CAATGACCTG	ATAGCCTTTG	TAGATCTCTC	AAAAATAGCT	7260
7261	ACCCTCTCCG	GCATTAATTT	ATCAGCTAGA	ACGGTTGAAT	ATCATATTGA	TGGTGATTTG	7320
7321	ACTGTCTCCG	GCCTTTCTCA	CCCTTTTGAA	TCTTTACCTA	CACATTACTC	AGGCAATTGCA	7380
7381	TTTAAATAT	ATGAGGGTTC	TAAAAATTTT	TATCCTTGCG	TTGAAATAAA	GGCTTCTCCC	7440
7441	GCAAAAGTAT	TACAGGGTCA	TAATGTTTTT	GGTACAACCG	ATTTAGCTTT	ATGCTCTGAG	7500
7501	GCTTTATTGC	TTAATTTTGC	TAATTCCTTG	CCTTGCCTGT	ATGATTTATT	GGATGTT	7557

FIG. 4C

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8720)

Filing Date: June 5, 1995

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USPTO Customer No. 23601 (858-535-9001)

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1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGCA	AATGATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTTCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTG	AGCAATTAAG	CTCTAAGCCA	240
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAGG	TACTCTCTAA	TCTTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAAACGG	ATATTTGAAG	360
361	TCITTCGGGC	TTCTCTTTAA	TCITTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAAGT	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCGCGAG	TATTTGACCG	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCCTA	AAATCGCATA	AGGTAATTC	840
841	CAATGATTAA	AGTTGAAAT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAAAG	960
961	AATATCCGGT	TCTTGTCAGG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCITTCAAAG	TTGGTCAGTT	CGGTTCCTTT	ATGATTGACC	1080
1081	GCTGCGCCT	CGTTCGGCT	AAGTAACATG	GAGCAGGTG	CGGATTTCTGA	CACAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAAGATGAG	TGTTTTAGTG	TATCTTTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTAATG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTG	TCATTTGTCGG	CGCAACTATC	GGTATCAAGC	TGTTTAAAGA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGAGAG	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCTTTAGT	TGTTCTTTTC	1620
1621	TATTTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AAACCCATAT	AGAAAAATTC	1680
1681	TTTACTAACG	TCTGAAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAATA	TGAGGGTTGT	1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCTTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCGCGGCT	ATACTTATAT	CAACCTCTCT	GACGGCACTT	ATCCGCTTGG	TACTGAGCAA	1980
1981	AACCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAAATAATA	GGTTCCGAAA	TAGGCAAGGG	GCATTAACCTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTGAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCTG	TTTGTGAATA	TCAAGGCCAA	TGCTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCGGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAAACGCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAATG	GCTCAAGTCT	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGCTA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCITTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GSTATTCCGT	2880
2881	TATTTATGCG	TTTCTCTGCT	TTCTTCTGG	TAACITTTGT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTTCATT	GTTTCTTGCT	GTTATTATTG	3000

FIG. 5A

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Husc

Serial No.: 08/471,622 (Confirmation No. 8728)

Filing Date: June 5, 1995

Attorney Docket: P-IX 1613

USPTO Customer No. 23601 (858-535-9001)

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	10	20	30	40	50	60	
3001	GGCTTAAC	AATTCTTG	GGTTATCT	CTGATATT	CGCTCAAT	CCCTCTGA	3060
3061	TTGTTCA	TGTTCA	ATTCTCCG	CTAATGCG	TCCCTGTT	TATGTTAT	3120
3121	TCTCTGTA	GGCTGCTA	TTCAATTT	ACGTTAA	AAAAATCG	TCTTATTT	3180
3181	ATTGGGAT	ATAATATG	TGTTTATTT	GTAAGTGG	AATTAGGC	TGGAAAGAC	3240
3241	CTCGTTAG	TTGGTAAG	TCAGGATA	ATTGTAGC	GGTGCAAA	AGCAACTA	3300
3301	CTTGATTT	GGCTTCA	CCTCCGCA	GTCCGGAG	TCGCTAAA	GCCTCGCG	3360
3361	CTTAGAAT	CGGATAAG	TTCTATAT	GATTGCTT	CTATTGGG	CGGTAATG	3420
3421	TCCTACGA	AAAAATA	CGGCTTG	GTCTCGAT	AGTGCGGT	TTGGTTAA	3480
3481	ACCCGTT	GGAATGAT	GGAAAGAC	CCGATTAT	ATTGGTTT	ACATGCTC	3540
3541	AAATTAGG	GGGATATT	TTTTCTTG	CAGGACTT	CTATTGTT	TAAACAGG	3600
3601	CGTTCTGC	TAGCTGA	TGTTGTTT	TGTCGTCT	TGGACAGA	TACTTTAC	3660
3661	TTTGTCGG	CTTTATAT	TCTTATT	GGCTCGAA	TGCTCTGC	TAAATTAC	3720
3721	GTTGGCGT	TTAAATAT	CGATTCTC	TTAAGCC	CTGTTGAG	TTGGCTTT	3780
3781	ACTGGTA	ATTTGTAT	CGCATATG	ACTAAAC	CTTTTCT	TAATTATG	3840
3841	TCCGGTGT	ATTCTTAT	AACGCTT	TTATCAC	GTCCGTAT	CAAACAT	3900
3901	AATTAGGT	AGAAGATG	GCTTACTA	ATATATT	AAAAGTTT	ACGCGTCT	3960
3961	TGCTTGCG	TTGGATTT	ATCAGCAT	ACATATAG	ATATAACC	ACCTAAGC	4020
4021	GAGGTTAA	AGGTAGTC	TCAGACCT	GATTTGAT	AATTCACT	TGACTCTT	4080
4081	CAGCGCTT	ATCTAAG	TCGCTATG	TTCAAGGA	CTAAGGGA	ATTAATTA	4140
4141	AGCGACGA	TACAGAAG	AGGTTATT	CTCACATA	TTGATTTA	TACTGTTT	4200
4201	ATTAATA	GTAATTC	TGAAATGT	AAATGTA	AATTTTGT	TCTTGATG	4260
4261	TGTTTCAT	TCITCTTT	CTCAGGTA	TGAAATGA	AATTCGCC	TGCGCGAT	4320
4321	TGTAACCT	TATTCAA	AATCAGCG	ATCCGTT	GTTCCTCC	ATGTAAGG	4380
4381	TACTGTTA	GTATATTC	CTGACGTT	ACCTGAA	CTACGCA	TCTTTAT	4440
4441	TGTTTTAC	GCTAATA	TTGATATG	TGGTTCA	CCTTCCAT	TTCAGAAG	4500
4501	TAAATCAA	AATCAGG	ATATTGAT	ATTGCCAT	TCTGATA	AGGAATAT	4560
4561	TGATTAAT	GCTCCTTC	GTGGTTTC	TGTTCCG	AATGATA	TTACTCAA	4620
4621	TTTTAAAT	AATAACGT	GGGCAAG	TTTAATAC	GTTGTCA	TGTTTGTA	4680
4681	GTCTAATA	TCTAAATC	CAAAATGT	ATCTATT	GGCTCTA	TATTAGTT	4740
4741	TAGTGCAC	AAAGATAT	TAGATAAC	TCTCAATT	CTTTCTAC	TTGATTG	4800
4801	AACTGACC	ATATTGAT	AGGGTTG	ATTTGAG	CAGCAAGG	ATGCTTTA	4860
4861	TTTTTCA	GCTGCTGG	CTCAGCG	CACTGTT	GGCGGTG	ATACTGAC	4920
4921	CCTCACCT	GTTTTATC	CTGCTGG	TTGCTTC	ATTTTAA	GCGATGTT	4980
4981	AGGGCTAT	GTTCGCG	TAAAGACT	TAGCCATT	AAAATATT	CTGTGCC	5040
5041	TATCTTAC	CTTTCAG	AGAAGGTT	TATCTCT	GGCCAGA	TCCCTTT	5100
5101	TACTGGTC	GTGACTGG	AATCTGCC	TGTAATA	CCATTTC	CGATTGAG	5160
5161	TCAAAATG	GGTATTT	TGAGCGTT	TCCTGTT	ATGGCTG	GTAATATT	5220
5221	ICTGGAT	ACCAGCA	CCGATAGT	GAGTTC	ACTCAGG	GTGATGTT	5280
5281	TACTAAT	AGAAGTAT	CTACAAC	TAATTTG	GATGGAC	CTCTTTT	5340
5341	CGGTGGCC	ACTGATT	AAAACACT	TCAAGATT	GGCGTACC	TCTGTCT	5400
5401	AATCCCTT	ATCGGCTC	TGTTTAGC	CCGCTCT	TCCAACG	AAAGCAC	5460
5461	ATACGTGC	GTCAAAG	CCATAGT	CGCCCTG	CGGCGCAT	AGCGCGC	5520
5521	GTGTGGTG	TACGCGC	GTGACCG	CACTTGC	CGCCCTA	CCCGCTC	5580
5581	TCGCTTCT	CCCTTCTT	CTCGCC	TCGCCGG	TCCCGTCA	GCTCTAA	5640
5641	GGGGGCTC	TTTAGGGT	CGATTTAG	CTTTACG	CCTCGAC	AAAAACT	5700
5701	ATTTGGGT	TGGTTAC	AGTGGGC	CGCCCTG	GACGGT	CGCCCTT	5760
5761	CGTTGGAG	CACGTTCT	AATAGTG	TCTTGTCC	AACTGGA	ACACTCA	5820
5821	CTATCTCG	CTATTTCT	GATTTATA	GGATTTTG	GATTTGGA	CCACCAT	5880
5881	ACAGGATTT	CGCCTGCT	GGCAAACC	CGTGGACC	TTGCTGCA	TCTCTCA	5940
5941	CCAGGCGGT	AAGGCAAT	AGCTGTTG	CGTCTCG	GTGAAAGA	AAACCACC	6000

FIG. 5B

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Husc

Serial No.: 08/471,622 (Confirmation No. 8724)

Filing Date: June 5, 1995

Attorney Docket: P-JX 1613

USPTO Customer No. 23601 (858-535-9001)

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	1	10	1	20	1	30	1	40	1	50	1	60	
6001	GGCGCCCAAT	ACGCAAACCG	CCTCTCCCGG	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	6060						
6061	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120						
6121	TCACTCATT	GGCACCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	6180						
6181	TTGTGAGCGG	ATAACAATTT	CACACGCGTC	ACTTGGCACT	GGCCGTCGTT	TTACAACGTC	6240						
6241	GTGACTGGGA	AAACCTGGC	GTTACCCAAG	CTTTGTACAT	GGAGAAAATA	AAGTGAACA	6300						
6301	AAGCACTATT	GCACTGGCAC	TCTTACCGTT	ACTGTTTACC	CCTGTGGCAA	AAGCCAGGT	6360						
6361	CCAGCTGCTC	GAGTCGGTCT	TCCCCCTGGC	ACCCCTCCTCC	AAGAGCACCT	CTGGGGGCAC	6420						
6421	AGCGGCCCTG	GGCTGCCTGG	TCAAGACTAA	TTCCCCGAAC	CGGTGACGGT	GTGCTGGAAC	6480						
6481	TCAGGCGCCC	TGACCAGCGG	CGTGCACACC	TTCCCCGGCTG	TCCTACAGTC	CTCAGGACTC	6540						
6541	TACTCCCTCA	GCAGCGTGCT	GACCGTGCCC	TCCAGCAGCT	TGGGCACCCA	GACCTACATC	6600						
6601	TGCAACGTGA	ATCACAAGCC	CAGCAACACC	AAGGTGGACA	AGAAAGCAGA	GCCCAAATCT	6660						
6661	TGTACTAGTG	GATCCTACCC	GTACGACGTT	CCGGACTACG	CTTCTTAGGC	TGAAGGCGAT	6720						
6721	GACCCCTGCTA	AGGCTGCATT	CAATAGTTTA	CAGGCAAGTG	CTACTGAGTA	CATTGGCTAC	6780						
6781	GCTTGGGCTA	TGGTAGTAGT	TATAGTTGGT	GCTACCATAG	GGATTAAATT	ATTCAAAAAG	6840						
6841	TTTACGAGCA	AGGCTTCTTA	AGCAATAGCG	AAGAGGCCCG	CACCGATCGC	CCTTCCCAAC	6900						
6901	AGTTGCGCAG	CCTGAATGGC	GAATGGCGCT	TTGCCTGGTT	TCCGGCACCA	GAAGCGGTGC	6960						
6961	CGGAAAGCTG	GCTGGAGTGC	GATCTTCTCG	AGGCCGATAC	GGTGCTCGTC	CCCTCAAAC	7020						
7021	GGCAGATGCA	CGGTTACGAT	GCGCCATCT	ACACCAACGT	AACCTATCCC	ATTACGGTCA	7080						
7081	ATCCGCCGTT	TGTTCCACG	GAGAATCCGA	CGGTTGTTA	CTCGCTCACA	TTTAATGTTG	7140						
7141	ATGAAAGCTG	GCTACAGGAA	GGCCAGACGC	GAATATTTT	TGATGGCGTT	CCTATTGGTT	7200						
7201	AAAAAATGAG	CTGATTTAAC	AAAAATTAA	CGCGAATTTT	AACAAAATAT	TAACGTTTAC	7260						
7261	AATTTAAATA	TTTGCTTATA	CAATCTTCT	GTITTTGGGG	CTTTTCTGAT	TATCAACCGG	7320						
7321	GGTACATATG	ATTGACATGC	TAGTTTACG	ATTACCGTTC	ATCGATTCTC	TTGTTTGCTC	7380						
7381	CAGACTCTCA	GGCAATGACC	TGATAGCCTT	TGTAGATCTC	TCAAAAATAG	CTACCCCTCTC	7440						
7441	CGGCAATTAAT	TTATCAGCTA	GAACGGTTGA	ATATCATATT	GATGGTGATT	TGACTGTCTC	7500						
7501	CGGCCCTTCT	CACCCTTTTG	AATCTTTACC	TACACATTAC	TCAGGCATTG	CATTTAAAAAT	7560						
7561	ATATGAGGGT	TCTAAAAATT	TTTATCCTTG	CGTTGAAATA	AAGGCTTCTC	CCGCAAAAGT	7620						
7621	ATTACAGGGT	CATAATGTTT	TTGGTACAAC	CGATTTAGCT	TTATGCTCTG	AGGCTTTATT	7680						
7681	GCTTAATTTT	GCTAATCTT	TGCCTTGCCT	GATGATTTA	TTGGACGTT		7729						
	1	10	1	20	1	30	1	40	1	50	1	60	

FIG. 5C

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8726)

Filing Date: June 5, 1995

Attorney Docket: P-DX 1613

USPTO Customer No. 23601 (858-535-9001)

14/16

1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTCGCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TTAAAACGCG	ATATTTGAAG	360
361	TCTTTCGGGC	TTCTCTTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCGCGAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CGTTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAAATTC	840
841	CAATGATTAA	AGTTGAAAT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCACTCTGTC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCCTGCGCT	CGTTCGGGCT	AAGTAAACATG	GAGCAGGTCTG	CGGATTTTCA	CACAAATTTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTTCTTTC	CCTCTTCTGT	TTTAGGTTGG	TGCTTCTGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCTT	1320
1321	CAAAGCCTCT	GTAAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTTCGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TTAATCTCCT	GCAAGCTCA	GCGACCGAAT	ATATCTGGTTA	1440
1441	TGCGTGGGCG	ATGGTTTGTG	TCAATTGTGCG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTACCTTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAA	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGGAGA	TTTTCAACGT	GAAAAAATTA	TTATTCGCAA	TTCTTTTGTG	TGTTCTTTTC	1620
1621	TATTTCTACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AAACCCATAC	AGAAATTTCA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCYA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCCGGGCT	ATACTTATAT	CAACCTCTCT	GACGGCACTT	ATCCGCTGGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAAATAATA	GGTTCCGAAA	TAGGCAAGGG	GCATTAACCTG	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACCTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCTG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCTCAACC	TCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGGCT	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAAGAT	GGCAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAAACGCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTGCGTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGGCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AAATAACCTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	ATGGCTTTTG	GGTATTCGGT	2880
2881	TATTATTGCG	TTTCCTCGGT	TTCTTCTGG	TAACTTTGT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTCAAT	GTTCCTTGCT	CTTATTATTG	3000

FIG. 6A

Title: Surface Expression Libraries of Heteromeric Motors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 8726)

Filing Date: June 5, 1995

Attorney Docket: P-IX 1613

USPTO Customer No. 23601 (858-535-9001)

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	1	10	20	30	40	50	60	
3001	GGCTTAACTC	AATTCTTGIG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT		3060
3061	TTGTTACAGG	TGTTCACTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC		3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTGG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG		3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACCTGGC	AATTAGGCTC	TGGAAAGACG		3240
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT		3300
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCCGGAGGT	TCGCTAAAC	GCCTCGCGTT		3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT		3420
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	ETTCTCGATG	AGTGCGGTAC	TGGTTTAAAT		3480
3481	ACCCGTTTCT	GGAATGATAA	GGAAAGACAG	CCGATTATTG	ATTGGTTTTCT	ACATGCTCGT		3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG		3600
3601	CGTTCTGCA	TAGCTGAACA	TGTTGTTTAT	TGTCCTCGTC	TGGACAGAAT	TACTTTACCT		3660
3661	TTTGTGCGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCCTCGCC	TAAATTACAT		3720
3721	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT		3780
3781	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTTCTAG	TAATTATGAT		3840
3841	TCCGGTGTTT	ATTTCTATTT	AACGCCITAT	TTATCACACG	GTCCGTATTT	CAAAACCATTA		3900
3901	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTY	ACGCGTTCTT		3960
3961	TGTCCTGCGA	TTGGATTGTC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG		4020
4021	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACAT	TGACTCTTCT		4080
4081	CAGCGTCTTA	ATCTAAGCTA	TGCTATGTTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT		4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC		4200
4201	ATTAATAAAG	GTAATTCAAA	TGAAATGTTT	AAATGTAAAT	AAATTTGTTT	TCYTGATGTT		4260
4261	TGTTTCATCA	TCCTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AATTCGCTC	TGCGCGATTT		4320
4321	TGTAACCTTG	TATTCAAAGC	AATCAGGCGA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAGG		4380
4381	TACTGTTACT	GTATATTCA	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTT		4440
4441	TGTTTACGT	GCTAATAATT	TTGATATGTT	TGGTTCAATT	CTTTCATAAA	TTCAGAAGTA		4500
4501	TAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA		4560
4561	TGATAAATCC	GCTCCTTCTG	GTGGTTTCTT	TGTTCCGCAA	AATGATAATG	TTACTCAAAC		4620
4621	TTTTAAATTT	AATAACGTTT	GGGCAAAAGGA	TTTAATACGA	GTTTGTGGAAT	TGTTTGTAAA		4680
4681	GTCTAATACT	TCTAATTCCT	CAAAATGTTT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT		4740
4741	TAGTGCACCT	AAAGATATTT	TAGATAACCT	TCCCTCAATT	CTTTCTACTG	TTGATTTGCC		4800
4801	AACTGACCAG	ATATTGATTG	AGGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA		4860
4861	TTTTTCAATT	GCTGCTGGCT	CTCAGCGTGG	CACGTGTTGA	GGCGGTGTTA	ATACTGACCG		4920
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTCGTTCCGT	ATTTTTAATG	CGCATGTTTT		4980
4981	AGGGCTATCA	GTTCCGCGCAT	TAAAGACTAA	TAGCCATTCA	AAAAATATTG	CTCTGCCACG		5040
5041	TATTTCTTAC	CTTTCAGGTC	AGAAGGTTTC	TATCTCTGTT	GGCCAGAATG	TCCCTTTTAT		5100
5101	TACTGGTCGT	GTGACTGGTG	AATCTGCCAA	TGTAATAAAT	CCATTTACAG	CGATTGAGCG		5160
5161	TCAAAATGTA	GGTATTTCCA	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT		5220
5221	TCTGGATATT	ACCAGCAAGG	GCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT		5280
5281	TACTAATCAA	AGAAGTATTG	CTACAAACGGT	TAATTTGCGT	GATGGACAGA	CTCTTTTACT		5340
5341	CGGTGGGCTC	ACTGATTATA	AAAACACTTC	TCAAGATTCT	GGCGTACCCT	TCCCTGTCTAA		5400
5401	AATCCCTTTA	ATCGGCCTCC	TGTTTAGCTC	CGGCTCTGAT	TCCAACGAGG	AAAGCACGTT		5460
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACG	CGCCCTGTAG	CGGCGCATT	AGCGCGGCGG		5520
5521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACCTTGCCAG	CGCCCTAGCG	CCCGCTCCCT		5580
5581	TCGCTTTCCT	CCCTTCCTTT	CTCGCCACGT	TCGCGGCTTT	TCCCGCTCAA	GCTCTAAATC		5640
5641	GGGGGCTCCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG		5700
5701	ATTTGGGTGA	TGGTTCACGT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA		5760
5761	CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCT	AACCTGGAACA	ACACTCAACC		5820
5821	CTATCTCGGG	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTTCGGA	CCACCATCAA		5880
5881	ACAGGATTTT	CGCCTGCTGG	GGCAAAACAG	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG		5940
5941	CCAGGCGGGT	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTGAAAAGAA	AAACCACCTT		6000

FIG. 6B

Title: Surface Expression Libraries of Heteromeric Receptors

Inventor: William D. Huse

Serial No.: 08/471,622 (Confirmation No. 872)

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	1	10	20	30	40	50	60	
6001	GGCGCCCAAT	ACGCAAAACCG	CCTCTCCCCG	CGCGTTGGCC	GATTCAATTA	TGCAGCTGGC	6060	
6061	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120	
6121	TCACTCATT	GGCACCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	6180	
6181	TTGTGAGCGG	ATAACAATTT	CACACGCCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	6240	
6241	TACGGCAGCC	GCTGGATTGT	TATTACTCGC	TGCCCAACCA	GCCATGGCCG	AGCTCTTCCC	6300	
6301	GCCATCTGAT	GAGCAGTTGA	AATCTGGAAC	TGCCTCTGT	GTGTGCTG	TGAATAACTT	6360	
6361	CTATCCCAGA	GAGGCCAAAG	TACAGTGGAA	GGTGGATAAC	GCCCTCCAAT	CGGGTAACTC	6420	
6421	CCAGGAGAGT	GTACACAGAG	AGGACAGCAA	GGACAGCACC	TACAGCCTCA	GCAGCACCTT	6480	
6481	GACGCTGAGC	AAAGCAGACT	ACGAGAAACA	CAAAGTCTAC	GCCTGCGAAG	TCACCCATCA	6540	
6541	GGGCTTGAGC	TGCGCCGTCA	CAAAGAGCTT	CAACAGGGGA	GAGTGTCTTA	GAACGCGTCA	6600	
6601	CTTGGCACTG	GCCGTCGTTT	TACAACGTCG	TGACTGGGAA	AACCCTGGCG	TTACCCAAGC	6660	
6661	TTTGTACATG	GAGAAAATAA	AGTGAACAAA	AGCACTATTG	CACTGGCACT	CTTACCCTTA	6720	
6721	CTGTTTACCC	CTGTGGCAAA	AGCCGCTTCC	ACCAAGGGCC	CATCGGTCTT	CCCCCTGGCA	6780	
6781	CCCTCCTCCA	AGAGCACCTC	TGGGGGCACA	GCGGCCCTGG	GCTGCTTGGT	CAAGACTAAT	6840	
6841	TCCCGGAACC	GGTGACGGTG	TCGTGGAAC	CAGGCGCCCT	GACCAAGCCG	GTGCACACCT	6900	
6901	TCCCGGCTGT	CCTACAGTCC	TCAGGACTCT	ACTCCCTCAG	CAGCGTGGTG	ACCGTGCCCT	6960	
6961	CCAGCAGCTT	GGGCACCCAG	ACCTACATCT	GCAACGTGAA	TCACAAGCCC	AGCAACACCA	7020	
7021	AGGTGGACAA	GAAAGCAGAG	CCCAATCTT	GTACTAGTGG	ATCCTACCCG	TACGAGCTTC	7080	
7081	CGGACTACGC	TCTTTAGGCT	GAAAGCGATG	ACCTTGCTAA	GGCTGCATTC	AATAGTTTAC	7140	
7141	AGGCAAGTGC	TACTGAGTAC	ATTGGCTACG	CTTGGGCTAT	GGTAGTAGTT	ATAGTTGGTG	7200	
7201	CTACCATAGG	GATTAATAA	TTCAAAAAGT	TTACGAGCAA	GGCTTCTTAA	GCAATAGCGA	7260	
7261	AGAGGCCCGC	ACCGATCGCC	CTTCCCAACA	GTTGCGCAGC	CTGAATGGCG	AATGGCGCTT	7320	
7321	TGCCTGGTTT	CCGGCACCAG	AAGCGGTGCC	GGAAAGCTGG	GTGGAGTGGC	ATCTTCTCTA	7380	
7381	GGCCGATACG	GTGCTCGTCC	CCTCAAACTG	GCAGATGCAC	GGTTACGATG	CGCCCATCTA	7440	
7441	CACCAACGTA	ACCTATCCCA	TTACGGTCAA	TCCGCCGTTT	GTTCCACAGG	AGAATCCGAC	7500	
7501	GGGTTGTTAC	TGCTCACAT	TTAATGTTGA	TGAAAGCTGG	CTACAGGAAG	GCCAGACGCG	7560	
7561	AATTAATTTT	GATGGCGTTC	CTATTGGTTA	AAAAATGAGC	TGATTTAACA	AAAAATTAAC	7620	
7621	CGGAATTTTA	ACAAAATATT	AACGTTTACA	ATTTAAATAT	TTGCTTATAC	AATCTTCTG	7680	
7681	TTTTTGGGGC	TTTTCTGATT	ATCAACC6GG	GTACATATGA	TTGACATGCT	AGTTTTACGA	7740	
7741	TTACCGTTCA	TCGATTCTCT	TGTTTGCTCC	AGACTCTCAG	GCAATGACCT	GATAGCCTTT	7800	
7801	GTAGATCTCT	CAAAAATAGC	TACCCTCTCC	GGCATTAAAT	TATCAGCTAG	AACGGTTGAA	7860	
7861	TATCATATTG	ATGGTGATT	GACTGTCTCC	GGCCTTTCTC	ACCCTTTTGA	ATCTTTACCT	7920	
7921	ACACATTACT	CAGGCATTGC	ATTTAAAATA	TATGAGGGTT	CTAAAAATTT	TTATCCTTGC	7980	
7981	GTGAAATAA	AGGCTTCTCC	CGCAAAAGTA	TTACAGGGTC	ATAATGTTTT	TGGTACAACC	8040	
8041	GATTTAGCTT	TATGCTCTGA	GGCTTTATTG	CTTAATTTTG	CTAATTTCTT	GCCTTGCCCTG	8100	
8101	TATGATTTAT	TGGACGTT					8118	

FIG. 6C